PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORIS	Υ				
To:			PCT		
Blake Dawson Waldron Locked Bag N6 PO Grosvenor Place SYDNEY NSW 2000		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY			
			(PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	2 4 JAN 2005		
Applicant's or agent's file reference 02 1377 1479		FOR FURTHER ACTION See paragraph 2 below			
International application No.	International filing date	(day/month/year)	Priority date (day/month/year)		
PCT/AU2004/001624	22 November 2004		21 November 2003		
*-ternational Patent Classification (IPC) or	both national classifica	ation and IPC			
A61K 31/275; C07C 255/3	34, 255/40; C07D 40°	7/12; A61P 25/00			
Applicant THE UNIVERSITY OF NEWCA	ASTLE RESEARCH	ASSOCIATES LI	MITED et al		
1. This opinion contains indications rela-	ting to the following ite	ems:			
X Box No. 1 Basis of the opinion	n				
Box No. II Priority					
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. IV Lack of unity of invention					
Box No. V Reasoned statement under Rule 43bix.1(a)(i) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement					
Box No VI Certain documents cited					
	Box No. VII. Certain defects in the international application				
X Box No. VIII Certain observations on the international application					
2. FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66 1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220.					
3. For further details, see notes to Form PCT/	1.77 V 4.2W.				

Name and mailing address of the IPEA/AU

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To: EAPPLAN 5 80 0 9 8 P. 29 / 38

AP9 Rec'd PCIPTO 19 MAY 2006 International application No.

PCT/AU2004/001624

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

			1 (:1/11/2004/001024
Box	r No. I	Basis of the opinion	
1.	With	regard to the language, this opinion has been established on the basis of the internation hit was filed, unless otherwise indicated under this item.	nal application in the language in
		This opinion has been established on the basis of a translation from the original langua the following language , which is the language of a translation furnish international search (under Rules 12.3 and 23.1(b))	age into ned for the purposes of
2.	With clair	regard to any nucleotide and/or amino acid sequence disclosed in the international and invention, this opinion has been established on the basis of:	application and necessary to the
	a t	ype of material	
		a sequence listing	
		table(s) related to the sequence listing	
	b. f	ormat of material	i
		in written format	
		in computer readable form	
	c. t	ime of 6ling/furnishing	
		contained in the international application as filed. filed together with the international application in computer readable form.	
		furnished subsequently to this Authority for the purposes of search.	
3.		In addition, in the case that more than one version or copy of a sequence listing and/or filed or furnished, the required statements that the information in the subsequent or ad in the application as filed or does not go beyond the application as filed, as appropriate	chtional copies is identical to that
4.	Add	itional comments:	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001624

Box No. 1	III Non	-establishment of	opinion with regard to novelty, inventive step and industrial applicability
			tion appears to be novel, to involve an inventive step (to be non obvious), or to be mined in respect of:
	the entire in	ternational applica	tion
X	claims Nos:	8, 9, 13, 14, 62	, 63, 67 and 68, as well as parts of claims 1-7, 10-12, 15-61, 64-66 and 69-80
Ъсса	ausc:		••
П	the said inte	ernational applicati	on, or the said claim Nos
·	relate to the	following subject	matter which does not require an international preliminary examination (specify):
	the descript	ion, claims or drav	vings (indicate particular elements helow) or said claims Nos.
	are so uncle	ar that no meaning	ful opinion could be formed (specify):
	the claims	or said claims Nos	
	•		by the description that no meaningful opinion could be formed.
X			has been established for said claims Nos. 8, 9, 13, 14, 62, 63, 67 and 68, as well as 15-61, 64-66 and 69-80
		ide and/or amino active Instructions in	tid sequence listing does not comply with the standard provided for in Annex C of the that:
1	the written fo	rm	has not been furnished
			does not comply with the standard
	the computer	readable form	has not been furnished
			does not comply with the standard
			otide and/or amino acid sequence listing, if in computer readable form only, do not comply to provided for in Appex C-his of the Administrative Instructions.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

P.31/38

PCT/AU2004/001624

Statement		
Novelty (N)	Claims 1-7 (in part), 10-12(in part), 15-54(in part), 70(in part)	YES
	Claims 55-61(in part), 64-66(in part), 69(in part), 71-80(in part)	NO
Inventive step (IS)	Claims 1-7(in part), 10-12(in part), 15-54(in part), 70(in part)	YES
	Claims 55-61(in part), 64-66(in part), 69(in part), 71-80(in part)	NO
Industrial applicability (IA)	Claims 1-7(in part), 10-12(in part), 15-61(in part), 64-66(in part), 69-80(in part)	YES
	Claims	NO

61299404555

The following citations were found by the International Search Report.

D1: US 5,892,096

D2: WO 1997/013749

D3: WO 1995/019169

D4: Yuan et al, Bioorganic & Medicinal Chemistry, 10, 2002, p4169-4183

D5: Gazit et al, Journal of Medicinal Chemistry, 1996, 39, p4905-4911

Novelty (N) & Inventive Step (IS)

Claims 55-61, 64-66, 69 and 71-80 include within their scope compounds which are disclosed in citations D1-D5, and thus lack both novelty and an inventive step.

Industrial Applicability (IA)

The claims possess industrial applicability.

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/AU2004/001624

Box No. VIII	Certain observations on the international applicat	ion
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The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

- 1. The claims are defined so broadly and encompass such a variety of compounds that it is felt that they are not adequately supported by the description. Phrases such as "spacer" and "a linker group" include a large variety of fragments when compared to the exemplified simple alkyl spacers and no examples of W other than as CH are given. All of the exemplified compounds have V as C, W as CH, Y as CN and Z as a phenyl ring. As the search was limited to a structure based on the examples, this examination is also restricted to compounds like the examples.
- 2. Claims 6, 30 and 60 are unclear. The phrasing of these claims makes it unclear what these claims are defining.